

END MODIFIED THERMAL RESPONSIVE HYDROGELS

Abstract of the Invention

5 A pharmaceutical composition includes a pharmaceutically acceptable carrier,
comprising a reverse thermally viscifying polymer. The polymer includes a linear block
copolymer, wherein at least one block comprises a poloxamer; and at least one block
comprises a biocompatible polymer or oligomer, in an aqueous medium. The composition also
includes an active agent which imparts a pharmaceutical or cosmetic effect. The composition
viscosifies in response to an environmental stimulus. The composition is suitable for
10 administration of the pharmaceutical agent across dermal, otic, rectal, vaginal, ophthalmic,
esophageal and nasal mucosal membranes.

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